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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/892,651	06/28/2001	Izuru Nakai	P21198	2034
7055	7590 04/08/2003			
GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
	1950 ROLAND CLARKE PLACE RESTON, VA 20191		TRAN, LEN	
			ART UNIT	PAPER NUMBER
			1725	Q
			DATE MAILED: 04/08/2003	D

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Applicati n N .	Applicant(s)
Office Action Summany	09/892,651	NAKAI ET AL.
Office Action Summary	Examiner	Art Unit
TI MAIL MA DATE AND	Len Tran	1725
The MAILING DATE of this communication app Period for Reply	ears	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
1) Responsive to communication(s) filed on 14 F	ebruary 2003 .	
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	is action is non-final.	
3) Since this application is in condition for alloward closed in accordance with the practice under a Disposition of Claims		
4) Claim(s) 1,3-5,7 and 9-11 is/are pending in the	e application.	
4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5)⊠ Claim(s) <u>6,12</u> is/are allowed.		
6)☐ Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		
9) The specification is objected to by the Examine	r.	
10) The drawing(s) filed on is/are: a) accept	ted or b)☐ objected to by the Exar	miner.
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	` '
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□ disappro	ved by the Examiner.
If approved, corrected drawings are required in rep	•	
12) The oath or declaration is objected to by the Exa	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.	
2. Certified copies of the priority documents	s have been received in Application	on No
Copies of the certified copies of the prior application from the International Bur     See the attached detailed Office action for a list-	eau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domestic	•	
_a)  The translation of the foreign language pro	visional application has been rec	eived.
15) Acknowledgment is made of a claim for domesting transported.	c priority under 35 U.S.C. §§ 120	and/or 121.
Attachment(s)	4) T 1-4 0	(DTO 442) Pages No(a)
1)  Notice of References Cited (PTO-892) 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) Patent Application (PTO-152)

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### **DETAILED ACTION**

This action replaces the rescinded office action mailed on March 11, 2003. Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1, 3, 7, 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant admitted prior art (figure 7), and further in view of Welch et al (US 5,914,978).

As to claims 1, 7 and 9-11, Applicant admitted prior art, figure 7, discloses a laser apparatus comprising of a laser oscillator, an f (theta) lens for converging the emitted laser light onto a workpiece, a galvanometer.

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However, applicant admitted prior art fails to show a wavelength selector, including a diffraction grating, a polarizer, interposed between the laser oscillator and the f (theta) lens.

Welch et al disclose a wavelength selector, including a diffraction grating, polarizer, and light emitted through a prism (figure 23, figure 12) for the purpose of singling out a desired wavelength.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a wavelength selector as taught by Welch et al, in Applicant's admitted prior art in order to achieve the desired wavelength.

As to claim 3, the limitation is a process limitation. However, the apparatus of Welch et al is capable of performing the claimed process of transmitting the laser a plurality of times through the prism.

4. Claims 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant admitted prior art (figure 7), and further in view of Welch et al (US 5,914,978), in view of Scheps et al (US 5,528,612).

Applicant admitted prior art and Welch et al disclose the claimed invention above in paragraph 5, but fail to teach a prism being in between the two reflecting mirrors.

However, Scheps et al disclose a prism arranged in between two reflecting mirrors (figure 1) to provide a spatially separate path for each of the wavelengths and to determine the specific laser wavelengths produced simultaneously by the laser.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a prism located between reflecting mirrors as taught by Scheps et al, in Applicant's admitted prior art and Welch et al in order to separate the wavelengths.

In addition, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a plurality of prism, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis paper Co. v. Bemis Co., 193 USPQ 8.

### Allowable Subject Matter

5. Claims 6 and 12 are allowed.

The prior arts of record fail to teach plurality of prisms disposed between a pair of opposed reflection mirrors and wherein the lasers are emitted through the prism a plurality of times using the reflection mirrors.

### Response to Arguments

6. Applicant's arguments filed 2/14/03 have been fully considered but they are not persuasive.

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the

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teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Applicant admitted prior art, figure 7, discloses a laser apparatus comprising of a laser oscillator, an f (theta) lens for converging the emitted laser light onto a workpiece, a galvanometer, but fails to show a wavelength selector, including a diffraction grating, a polarizer, interposed between the laser oscillator and the f (theta) lens. Welch et al disclose a wavelength selector, including a diffraction grating, polarizer, and light emitted through a prism (figure 23, figure 12) for the purpose of singling out a desired wavelength. Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide a wavelength selector as taught by Welch et al, in Applicant's admitted prior art in order to achieve the desired wavelength.

Furthermore, Applicant's argument regarding to the "wavelength selector including a shield provided with a pin hole to pass only a light ray having a specified wavelength" is not in commensurate with the scope of the claims, since such limitation is not claimed. Therefore claims 1, 3-5, 7, 9-11 remain rejected.

Applicant's amendment necessitated the new ground(s) of rejection presented in this 7. Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

# Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (703)605-1175. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3602 for regular communications and (703)305-3602 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Len Tran
Examiner
Art Unit 1725

LT April 2, 2003

M. ALEXANDRA (1)
PRIMARY EXAMINE:

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